

Rosemount™ 3051HT Hygienic Pressure Transmitter

with 4–20 mA HART®



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1 About this guide

This guide provides basic guidelines for Rosemount 3051HT Hygienic Pressure Transmitter. It does not provide instructions for configuration, diagnostics, maintenance, service, troubleshooting, explosion-proof, flameproof, or Intrinsically Safe (IS) installations. Refer to the [Rosemount 3051 Pressure Transmitter Manual](#) for more instructions. This guide and the referenced manual are also available on [Emerson.com](https://www.emerson.com).

1.1 Safety messages

▲ WARNING

Explosions

Explosions could result in death or serious injury.

Installation of device in an explosive environment must be in accordance with appropriate local, national, and international standards, codes, and practices. Review [Product certifications](#) for any restrictions associated with a safe installation.

Before connecting a handheld communicator in an explosive atmosphere, ensure that the instruments are installed in accordance with intrinsically safe or non-incendive field wiring practices.

In an explosionproof/flameproof installation, do not remove the transmitter covers when power is applied to the transmitter.

▲ WARNING

Process leaks

Process leaks may cause harm or result in death.

To avoid process leaks, only use the O-ring designed to seal with the corresponding flange adapter.

▲ WARNING

Electrical shock

Electrical shock can result in death or serious injury.

Avoid contact with the leads and terminals. High voltage that may be present on leads can cause electrical shock.

⚠ WARNING**Physical access**

Unauthorized personnel may potentially cause significant damage to and/or misconfiguration of end users' equipment. This could be intentional or unintentional and needs to be protected against.

Physical security is an important part of any security program and fundamental in protecting your system. Restrict physical access by unauthorized personnel to protect end users' assets. This is true for all systems used within the facility.

NOTICE**Conduit/cable entries**

Unless otherwise marked, the conduit/cable entries in the housing enclosure use a ½-14 NPT form. Only use plugs, adapters, glands, or conduit with a compatible thread form when closing these entries.

Entries marked "M20" are M20 × 1.5 thread form. On devices with multiple conduit entries, all entries will have the same thread form.

When installing in a hazardous location, use only appropriately listed or Ex certified plugs, glands, or adapters in cable/conduit entries.

2 Transmitter installation

2.1 Mount the transmitter

Before mounting, place the Rosemount 3051HT Hygienic Pressure Transmitter to the desired orientation. When changing the transmitter orientation, do not have the transmitter securely mounted or clamped in place.

Conduit entry orientation

When installing a Rosemount 3051HT, Emerson recommends installing it so that a conduit entry faces downward or parallel to the ground. This is to maximize drainability when cleaning.

Environmental seal for housing

Thread sealing (PTFE) tape or paste on male threads of conduit is required to provide a watertight/dustproof conduit seal and meet requirements of NEMA® Type 4X, IP66, IP68, and IP69K. If other Ingress Protection ratings are required, then consult the factory .

Note

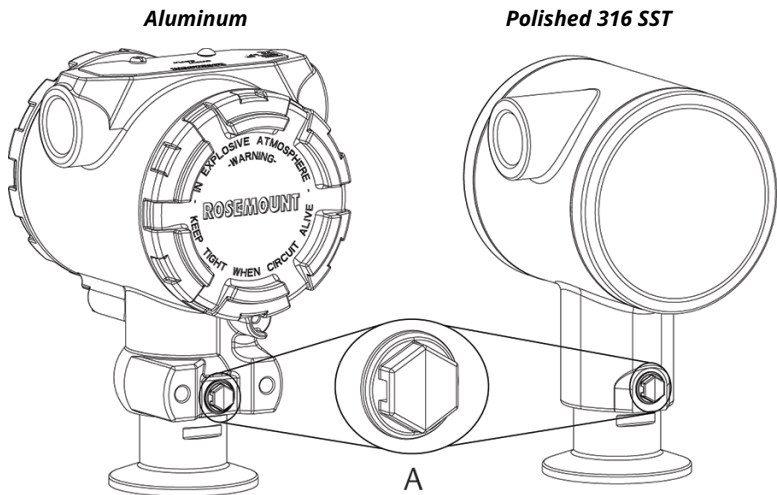
IP69K rating only available on units with a Stainless Steel (SST) housing and option code V9 in the model string.

For M20 threads, install conduit plugs to full thread engagement or until mechanical resistance is met.

Inline gauge transmitter orientation

The low side pressure port (atmospheric reference) on the inline gauge transmitter is located on the neck of the transmitter via a protected gauge vent (See [Figure 2-1](#)).

Mount the transmitter so that the process can drain away. This will keep the vent path free from obstructions including, but not limited to, paint, dust, and viscous fluids.

Figure 2-1: Inline protected gauge vent low side pressure port

A. Low side pressure port (atmospheric reference)

Clamping

When installing a clamp, follow the recommended torque values provided by the gasket manufacturer.

Note

To maintain performance, Emerson does not recommend torquing a 1.5" Tri-Clamp beyond 50 in-lb. on pressure ranges below 20 psi.

2.2 Set the switches

Before installation, set alarm and security switch configuration as shown in [Figure 2-2](#) and [Figure 2-3](#).

- The alarm switch sets the analog output alarm to high or low. Default alarm is high.
- The security switch allows (ⓑ) or prevents (ⓐ) any configuration of the transmitter. Default security is off (ⓑ).

To change the switch configuration:

Procedure

1. If the transmitter is installed, then secure the loop.
2. Remove power.
3. Remove the housing cover opposite the field terminal side.

⚠ WARNING

When the circuit is live in explosive atmospheres, do not remove the instrument cover.

4. Using a small screwdriver, slide the security and alarm switches into the preferred position.
5. Reattach the transmitter cover.

Note

To comply with:

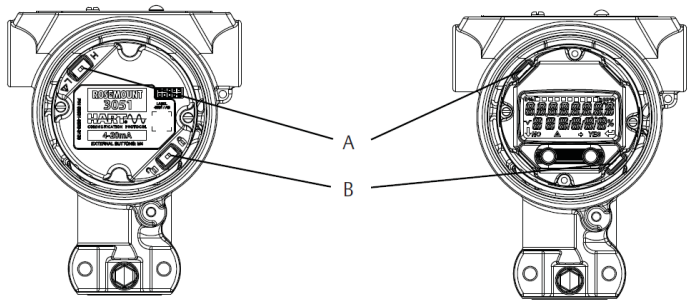
Applicable ordinary location requirements, the covers must only be capable of being released or removed with the aid of a tool.

Explosion-proof requirements, the cover must be fully engaged.

Figure 2-2: Transmitter electronics board - aluminum

Without LCD display

With Local Operator Interface (LOI) or LCD display

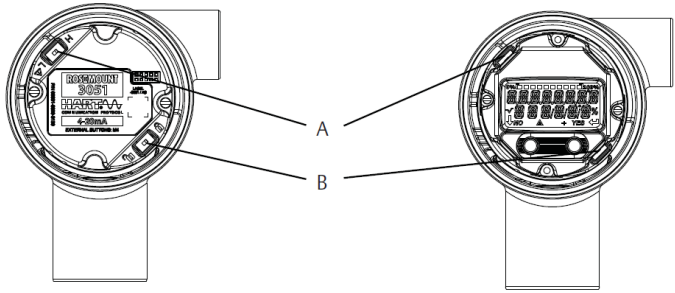


- A. Alarm
- B. Security

Figure 2-3: Transmitter electronics board - polished 316 Stainless Steel (SST)

Without LCD display

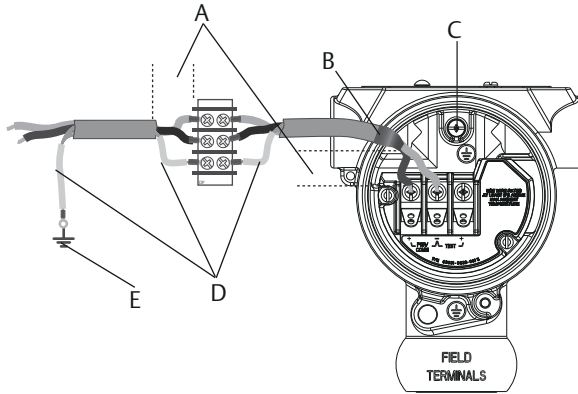
With LOI or LCD display



- A. Alarm
- B. Security

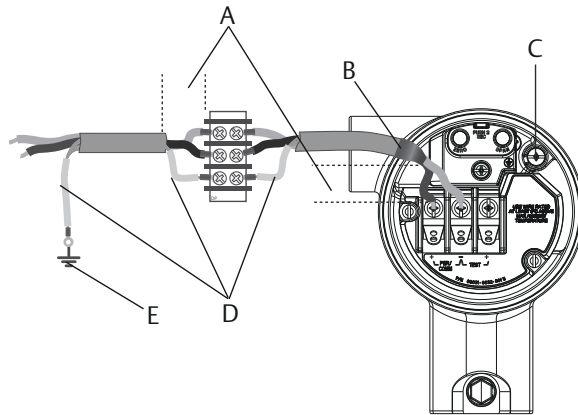
2.3 Connect the wiring and power up

Figure 2-4: Transmitter wiring diagrams (4-20 mA) - aluminum



- A. Minimize distance
- B. Trim shield and insulate
- C. Protective grounding terminal
- D. Insulate shield
- E. Connect shield back to the power supply ground

Figure 2-5: Transmitter wiring diagrams (4–20 mA) - polished 316 Stainless Steel (SST)



- A. Minimize distance*
- B. Trim shield and insulate*
- C. Protective grounding terminal*
- D. Insulate shield*
- E. Connect shield back to the power supply ground*

Note

Use shielded twisted pair cables for best results.

Use 24 AWG or larger wire that does not exceed 5,000 ft. (1,500 m) in length.

If applicable, install wiring with a drip loop. Arrange the drip loop so the bottom is lower than the conduit connections and the transmitter housing.

NOTICE

- Installation of the transient protection terminal block does not provide transient protection unless the Rosemount 3051HT Hygienic Pressure Transmitter case is properly grounded.
- Do not run signal wiring in conduit or open trays with power wiring, or near heavy electrical equipment.
- Do not connect the powered signal wiring to the test terminals. Power could damage the test diode in the terminal block.

Procedure

1. Remove the housing cover on the FIELD TERMINALS side.
2. Connect the positive lead to the “+” terminal (PWR/COMM) and the negative lead to the “-” terminal.
3. Ensure full contact with terminal block screw and washer. When using a direct wiring method, wrap wire clockwise to ensure it is in place when tightening the terminal block screw.

NOTICE

Emerson does not recommend using a pin or a ferrule wire terminal, as the connection may be more susceptible to loosening over time or under vibration.

4. Ground housing to fulfill local grounding regulations. Ensure proper grounding. It is important that the instrument cable shield be:
 - Trimmed close and insulated from touching the transmitter housing.
 - Connected to the next shield if cable is routed through a junction box.
 - Connected to a good earth ground at the power supply end.
-

Note

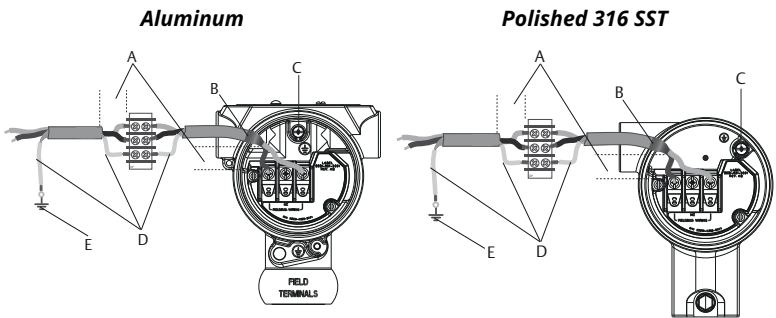
If transient protection is needed, then refer to [Grounding for transient terminal block](#) for grounding instructions.

5. Plug and seal unused conduit connections.
 6. Reattach the transmitter covers.
-

Note

To comply with applicable ordinary locations requirements, the covers must only be capable of being released or removed with the aid of a tool.

To comply with explosion-proof requirements, the cover must be fully engaged.

Figure 2-6: Wiring considerations

- A. Minimize distance
- B. Trim shield and insulate
- C. Protective grounding terminal
- D. Insulate shield
- E. Connect shield back to the power supply ground

Note

Do not ground cable shield at the transmitter.

2.3.1 Grounding for transient terminal block

Ground termination is provided on the outside of the electronics housing and inside the terminal compartment. These grounds are used when the transient protection terminal blocks are installed.

Emerson recommends using 18 AWG or larger wire to connect housing ground to earth ground (internal or external).

If the transmitter is currently not wired for power up and communication, follow [Connect the wiring and power up](#). When the transmitter is properly wired, refer to [Figure 2-6](#) for internal and external transient grounding locations.

NOTICE

The Rosemount 3051HT polished 316 Stainless Steel (SST) housing only provides ground termination inside the terminal compartment.

2.4 Configuration parameters

Emerson recommends that you verify various configuration parameters prior to installing the transmitter into the process:

- Alarm and saturation levels
- Damping
- Process variables
- Range values
- Tag
- Transfer function
- Units

Complete the following procedural steps to verify these parameters. See [Figure 2-7](#) for a full menu tree.

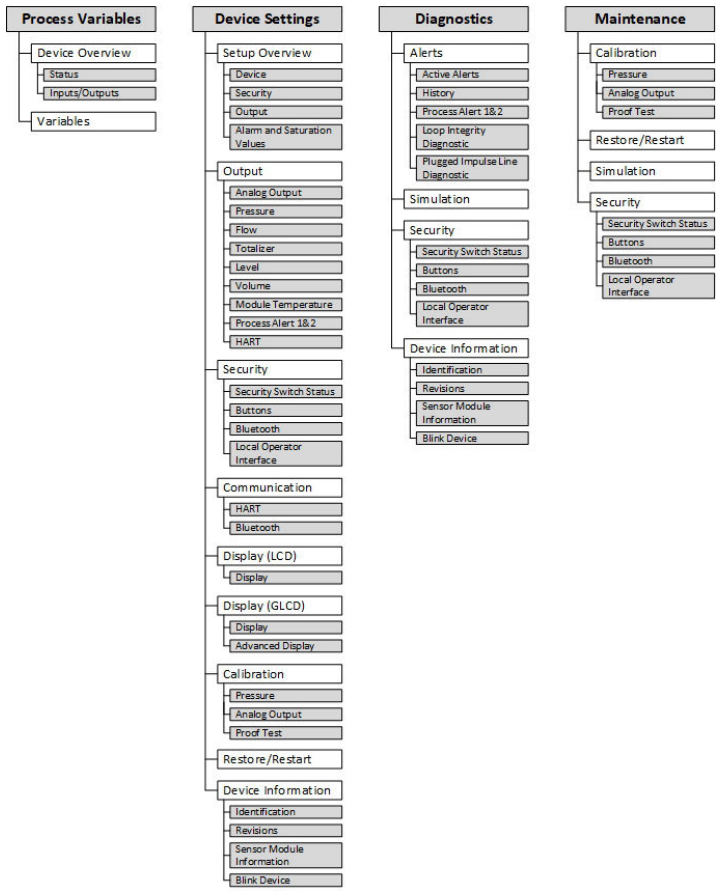
NOTICE

Emerson recommends installing the latest DD to ensure full functionality. Download the latest DD at [Software Downloads & Drivers | Emerson US](#).

Procedure

1. Set alarm and saturation values: **Device Settings** → **Setup Overview** → **Alarm and Saturation Values**.
2. Set damping: **Device Settings** → **Setup Overview** → **Output**.
3. Set process variables:
 - Primary variable: **Device Settings** → **Setup Overview** → **Output**
 - Secondary/Tertiary/Quaternary variables: **Device Settings** → **Communication** → **HART** → **Variable Mapping**
4. Set range values: **Device Settings** → **Setup Overview** → **Output**.
5. Set tag: **Device Settings** → **Setup Overview** → **Device**.
6. Set transfer function: **Device Settings** → **Setup Overview** → **Output**.
7. Set units:
 - Pressure units: **Device Settings** → **Setup Overview** → **Output**
 - Other units: **Device Settings** → **Output** → **Pressure/Flow/Totalizer/Level/Volume/Module Temperature** → **Setup**

Figure 2-7: Device driver (DD) menu tree



2.4.1 Wireless configuration via Bluetooth® technology Download AMS Device Configurator

Procedure

Download and install the app from your app store.

Note

The first time opening AMS Device Configurator, you may be asked to allow the application to access media on your device and to access your device's location. If prompted, select **Allow**.



Related information

[Emerson.com/Automation-Solutions-Bluetooth](https://www.emerson.com/Automation-Solutions-Bluetooth)

2.4.2 Configure via Bluetooth® wireless technology

Procedure

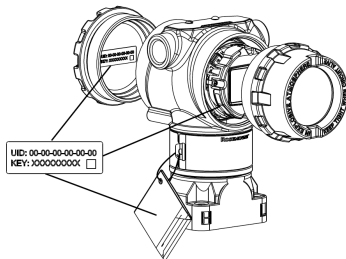
1. Launch AMS Device Configurator.
See [AMS Device Configurator for Emerson Field Devices](#).
2. Select the device where you want to connect.
3. On first connection, enter the key for selected device.
4. At the top left, select the menu icon to navigate the desired device menu.

Bluetooth® UID and key

You can find the Unique Identifier (UID) and key on the disposable paper tag attached to:

- the device
- the terminal block cover
- and on the display unit

Figure 2-8: Bluetooth security information



2.5 Trim the transmitter

Devices are calibrated by the factory. Once installed, it is recommended to perform a zero trim on gauge transmitter to eliminate error due to mounting position or static pressure effects.

A zero trim can be performed using either a Field Communicator or configuration buttons.

▲ CAUTION

It is not recommended to zero an absolute transmitter, Rosemount 3051HTA Transmitter.

Note

When performing a zero trim, ensure no process pressure is applied to device and all wet legs are filled to the correct level.

Procedure

Choose your trim procedure:

- a) Analog zero trim – Sets the analog output to 4 mA.
 - Also referred to as a “rerange” it sets the Lower Range Value (LRV) equal to the measured pressure.
 - The display and digital HART® output remains unchanged.
- b) Digital zero trim – Recalibrates the sensor zero.
 - The LRV is unaffected. The pressure value will be zero (on display and HART output). 4 mA point may not be at zero.
 - This requires the factory calibrated zero pressure is within a range of 3% of the URL [$0 \pm 3\% \times \text{URL}$].

URV = 250 inH₂O

Note

Applied Zero Pressure = $\pm 0.03 \times 250 \text{ inH}_2\text{O} = \pm 7.5 \text{ inH}_2\text{O}$ (compared to factory settings) values outside this range will be rejected by the transmitter.

2.5.1 Trimming with a Field Communicator

Procedure

1. Connect the Field Communicator. For instructions, see [Connect the wiring and power up](#).
2. Follow the HART® menu to perform the desired zero trim.

Table 2-1: Zero Trim Fast Keys

	Analog Zero (Set 4 mA)	Digital Zero
Fast Key sequence	3, 4, 2	3, 4, 1, 3

2.5.2 Trimming with configuration buttons

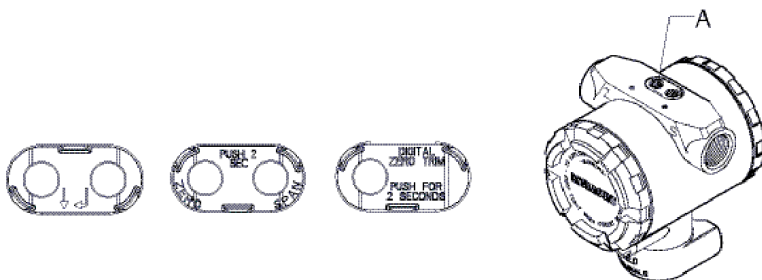
A zero trim is to be performed using one of the three possible sets of configuration buttons located above the terminal block or under the top tag.

To access the configuration buttons on a polished stainless steel housing, remove the terminal side housing cover.

To access the configuration buttons on an aluminum housing, loosen the screw on the top tag and slide the tag on the top of the transmitter.

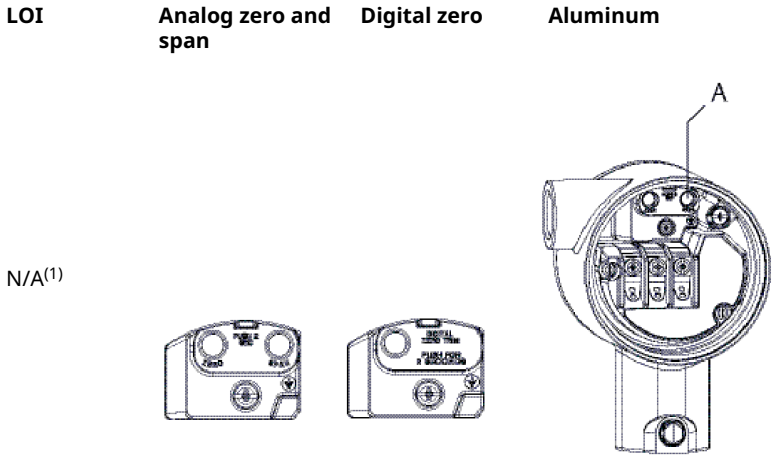
Figure 2-9: External or Rear/Terminal-Side Configuration Buttons for Aluminum

LOI Analog zero and span Digital zero Aluminum



A. Configuration buttons

Figure 2-10: External or Rear/Terminal-Side Configuration Buttons for Polished 316 SST



(1) LOI buttons (option M4) only offer front facing buttons on SST housing (option 1). Options D4 and DZ can still be purchased for rear/terminal-side facing buttons.

A. Configuration buttons

Perform trim with LOI (option M4)

Procedure

1. Set the transmitter pressure.
2. Perform an analog zero trim by selecting Rerange.
3. Perform a digital zero trim by selecting Zero Trim.

Perform trim with analog zero and span (option D4)

Procedure

1. Set the transmitter pressure.
2. Press and hold the **Zero** button for two seconds to perform an analog zero trim.

Perform trim with digital zero (option DZ)

Procedure

1. Set the transmitter pressure.

2. Press and hold the **Zero** button for two seconds to perform a digital zero trim.

3 Product certifications

Rev. 1.7

3.1 European Directive Information

A copy of the EU Declaration of Conformity can be found at the end of the Quick Start Guide. The most recent revision of the EU Declaration of Conformity can be found at [Emerson.com/Rosemount](https://www.emerson.com/Rosemount).

3.2 Ordinary Location Certification

As standard, the transmitter has been examined and tested to determine that the design meets the basic electrical, mechanical, and fire protection requirements by a Nationally Recognized Test Laboratory (NRTL) as accredited by the Federal Occupational Safety and Health Administration (OSHA).

Altitude	Pollution degree
5000 m max	4 (metallic enclosure) 2 (non-metallic enclosure)

3.3 Installing Equipment in North America

The US National Electrical Code[®] (NEC) and the Canadian Electrical Code (CEC) permit the use of Division marked equipment in Zones and Zone marked equipment in Divisions. The markings must be suitable for the area classification, gas, and temperature class. This information is clearly defined in the respective codes.

3.4 USA

I5 Intrinsic Safety; Nonincendive

Certificate 1053834

Standards FM 3600: 2022, FM 3610: 2018, FM 3611: 2021, ANSI/UL 61010-1-2019 Third Edition ANSI/UL 60079-0: 2017, ANSI/UL 60079-11: 2013, ANSI-ISA-12.27.01-2022, ANSI/UL 50E (1st Ed.)

Markings IS CL I, DIV 1, GP A, B, C, D when connected per Rosemount drawing 03031-1024, CL I ZONE 0 AEx ia IIC T4; NI CL 1, DIV 2, GP A, B, C, D; T4 ($-20\text{ °C} \leq T_a \leq +70\text{ °C}$) [HART[®]]; Type 4x

Specific Conditions for Use (X):

1. The Rosemount 3051HT transmitter housing may contain aluminum and is considered a potential risk of ignition by impact or friction. Care must be taken during installation and use to prevent impact and friction.
2. The Rosemount 3051HT with the transient terminal block (option code T1) will not pass the 500 V_{RMS} dielectric strength test; this must be considered during installation.
3. Equipment evaluated for atmospheric pressure range between 80 kPa (0,8 bar) to 110 kPa (1,1 bar).
4. Maximum process temperature limits shall be in accordance with 03031-1053.

3.5 Canada

Intrinsic Safety

Certificate 1053834

Standards C22.2 No. 61010-1-12, C22.2 No. 25-17, C22.2 No. 94.2-20 Third Edition,
CSA Std C22.2 No. 213-17 + UPD 1 (2018) + UPD 2 (2019) + UPD 3 (2021), CAN/CSA-60079-0:19,
CAN/CSA-60079-11:14, ANSI-ISA-12.27.01 -2022, ANSI/UL 50E (1st Ed.)

Markings IS CL I GP ABCD T4
Ex ia IIC T4 Ga
(-20 °C ≤ Ta ≤ +70 °C);

Single seal - temp limits per 03031-1053, Type 4X, IP 68

Install per 03031-1024

Specific Conditions for Use:

1. The Rosemount 3051HT Transmitter housing may contain aluminum and is considered a potential risk of ignition by impact or friction. Care must be taken during installation and use to prevent impact and friction.
2. The Rosemount 3051HT Transmitter with the transient terminal block (Option code T1) will not pass the 500 V_{RMS} dielectric strength test; this must be considered during installation.
3. Equipment evaluated for atmospheric pressure range between 80 kPa (0,8 bar) to 110 kPa (1,1 bar).

3.6 Europe

I1 ATEX Intrinsic Safety

Certificate BAS97ATEX1089X

Standards EN IEC 60079-0: 2018, EN 60079-11:2012

Markings HART®: Ⓢ II 1 G Ex ia IIC T4 Ga, (-20 °C ≤ T_a ≤ +70 °C)
 Fieldbus™: Ⓢ II 1 G Ex ia IIC Ga T4 (-20 °C ≤ T_a ≤ +60 °C)

Table 3-1: Input parameters

Parameter	HART	Fieldbus/PROFIBUS®
Voltage U _i	30 V	30 V
Current I _i	200 mA	300 mA
Power P _i	1.0 W	1.3 W
Capacitance C _i	0.012 μF	0 μF
Inductance L _i	0 mH	0 mH

Special Conditions for Safe Use (X):

1. The apparatus is not capable of withstanding the 500 V insulation test required by clause 6.3.12 of IEC 60079-11: 2011. This must be taken into account when installing the apparatus.
2. The enclosure may be made of aluminum alloy and given a protective polyurethane paint finish; however, care should be taken to protect it from impact or abrasion if located in Zone 0.
3. The enclosure may be made of aluminum alloy and given a protective polyurethane paint finish; however, care should be taken to protect it from impact or abrasion if located in Zone 0.

3.7 International

I7 IECEx Intrinsic Safety

Certificate IECEx BAS 09.0076X

Standards IEC 60079-0: 2017, IEC 60079-11: 2011

Markings HART®: Ex ia IIC T4 Ga, (-20 °C ≤ T_a ≤ +70 °C)
 PROFIBUS®: Ex ia IIC T4 (-20 °C ≤ T_a ≤ +60 °C)

Table 3-2: Input parameters

Parameter	HART®	Fieldbus™ /PROFIBUS®
Voltage U_i	30 V	30 V
Current I_i	200 mA	300 mA
Power P_i	1.0 W	1.3 W
Capacitance C_i	0.012 μ F	0 μ F
Inductance L_i	0 mH	0 mH

Special Conditions for Safe Use (X):

1. The apparatus is not capable of withstanding the 500 V insulation test required by clause 6.3.12 of IEC 60079-11: 2011. This must be taken into account when installing the apparatus.
2. The enclosure may be made of aluminum alloy and given a protective polyurethane paint finish; however, care should be taken to protect it from impact or abrasion if located in Zone 0.

3.8 Brazil

I2 INMETRO Intrinsic Safety

Certificate UL-BR 13.0584X

Standards ABNT NBR IEC60079-0: 2008 + Errata 1: 2011, ABNT NBR IEC60079-11: 2009

Markings HART: Ex ia IIC T5/T4 Ga, T5 ($-20\text{ °C} \leq T_a \leq +40\text{ °C}$), T4 ($-20\text{ °C} \leq T_a \leq +70\text{ °C}$) Fieldbus: Ex ia IIC T4 Ga ($-20\text{ °C} \leq T_a \leq +60\text{ °C}$)

	HART	PROFIBUS®
Voltage U_i	30 V	30 V
Current I_i	200 mA	300 mA
Power P_i	0.9 W	1.3 W
Capacitance C_i	0.012 μ F	0 μ F
Inductance L_i	0 mH	0 mH

Special Conditions for Safe Use (X):

1. If the equipment is fitted with an optional 90 V transient suppressor, it is not capable of withstanding the 500 V insulation test required by ABNT NBR IRC 60079-11. This must be taken into account when installing the equipment.

2. The enclosure may be made of aluminum alloy and given protective polyurethane paint finish; however, care should be taken to protect it from impact or abrasion if equipment requires EPL Ga.

3.9 Additional certifications

3-A[®]

All Rosemount 3051HT transmitters with the following connections are 3-A approved and labeled:

T32	1½-in. Tri Clamp
T42	2-in. Tri Clamp

If process connection B11 is selected, see the ordering table of the [Rosemount 1199 Diaphragm Seal PDS](#) for availability of 3-A certifications.

A 3-A certificate of compliance is available by selecting option code QA.

EHEDG

All Rosemount 3051HT transmitters with the following connections are EHEDG approved and labeled:

T32	1½-in. Tri Clamp
T42	2-in. Tri Clamp

If process connection B11 is selected, see the ordering table of the [Rosemount 1199 Diaphragm Seal PDS](#) for availability of EHEDG certifications.

An EHEDG certificate of compliance is available by selecting option code QE.

Ensure gasket selected for installation is approved to meet both application and EHEDG certification requirements.

ASME-BPE




All Rosemount 3051HT Transmitters with option F2 and the following connections are designed to ASME-BPE SF4 standards⁽¹⁾:


T32	1½-in. Tri Clamp
T42	2-in. Tri Clamp

(1) Per Clause SD-2.4.4.2 (m), suitability of painted aluminum housings is to be determined by end user.

A self-certified certificate of compliance to ASME-BPE is also available (option QB).


Declaration of Conformity

	EU Declaration of Conformity No: RMD 1106 Rev. K	
<p>We,</p> <p style="margin-left: 40px;">Rosemount, Inc. 6021 Innovation Blvd., Shakopee, MN 55379 USA</p> <p>declare under our sole responsibility that the product,</p> <p style="text-align: center;">Rosemount™ 3051HT Pressure Transmitters</p> <p>manufactured by,</p> <p style="margin-left: 40px;">Rosemount, Inc. 6021 Innovation Blvd., Shakopee, MN 55379 USA</p> <p>to which this declaration relates, is in conformity with the provisions of the European Union Directives, including the latest amendments, as shown in the attached schedule.</p> <p>Assumption of conformity is based on the application of the harmonized standards and, when applicable or required, a European Union notified body certification, as shown in the attached schedule.</p>		
 _____ (signature)	Vice President of Global Quality _____ (function)	
Mark Lee _____ (name)	June 27, 2023 _____ (date of issue & place)	
<small>Page 1 of 3</small>		



EU Declaration of Conformity

No: RMD 1106 Rev. K



EMC Directive (2014/30/EU)
Models 3051HT Pressure Transmitters
 Harmonized Standards: EN 61326-1:2013, EN 61326-2-3:2013

RoHS Directive (2011/65/EU)
Models 3051HT Pressure Transmitters
 Harmonized Standard: EN 50581:2012

Regulation (EC) No. 1935/2004 on materials and articles intended to come into contact with food

Regulation (EC) No. 2023/2006 on good manufacturing practice for materials and articles intended to come into contact with food (GMP).

The surface and material in contact with food consist of the below materials:

Product	Description	Food Contact Materials
3051HT	Pressure Transmitter	316L SST



The user is responsible for testing the suitability of the units for the intended application. The customer is responsible for deciding whether the specific phrasings regarding the intended application comply with the applicable laws

ATEX Directive (2014/34/EU)
Model 3051HT Pressure Transmitter
BAS97ATEX1089X - Intrinsic Safety
 Equipment Group II Category 1 G
 Ex ia IIC T4 Ga
 Harmonized Standards:
 EN IEC 60079-0: 2018
 EN 60079-11: 2012

ATEX Notified Body

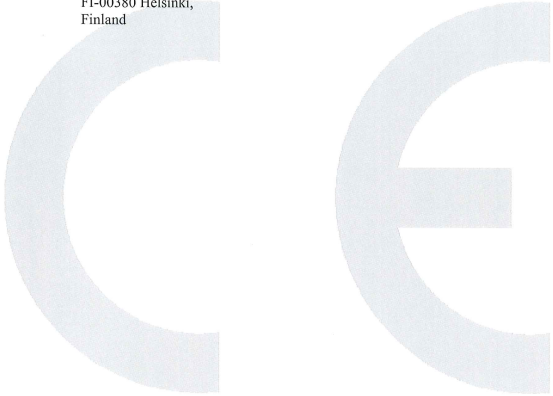
SGS FIMKO OY [Notified Body Number: 0598]
 Takomotie 8
 FI-00380 Helsinki,
 Finland

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 **EU Declaration of Conformity** 
No: RMD 1106 Rev. K

ATEX Notified Body for Quality Assurance

SGS FIMKO OY [Notified Body Number: 0598]
Takomotie 8
FI-00380 Helsinki,
Finland



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China RoHS

含有China RoHS管控物质超过最大浓度限值的部件型号列表 3051HT
List of 3051HT Parts with China RoHS Concentration above MCVs

部件名称 Part Name	有害物质 / Hazardous Substances					
	铅 Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr +6)	多溴联苯 Polybrominated biphenyls (PBB)	多溴联苯醚 Polybrominated diphenyl ethers (PBDE)
电子组件 Electronics Assembly	X	O	O	O	O	O
壳体组件 Housing Assembly	X	O	O	X	O	O
传感器组件 Sensor Assembly	X	O	O	X	O	O

本表格系依据SJ/T11364的规定而制作。

This table is proposed in accordance with the provision of SJ/T11364.

O: 意为该部件的所有均质材料中该有害物质的含量均低于GB/T 26572所规定的限量要求。

O: Indicate that said hazardous substance in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.

X: 意为在该部件所使用的所有均质材料里，至少有一类均质材料中该有害物质的含量高于GB/T 26572所规定的限量要求。

X: Indicate that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572.

部件名称 Part Name	组装备件说明 Spare Parts Descriptions for Assemblies
电子组件 Electronics Assembly	电子线路板组件 Electronic Board Assemblies 端子块组件 Terminal Block Assemblies 升级套件 Upgrade Kits 液晶显示屏或本地操作界面 LCD or LOI Display
壳体组件 Housing Assembly	电子外壳 Electrical Housing
传感器组件 Sensor Assembly	传感器模块 Sensor Module



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For more information: [Emerson.com/global](https://www.emerson.com/global)

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